

## ABSTRACT:

The invention relates to a transponder for monitoring network elements of a hybrid fiber coax network with firmware, which firmware

- comprise several overlaid layers (2, 12, 22) containing several software components known as function modules (3 to 11, 13 to 19),

5 - where a bottom layer (2) contains the function modules (3 to 11) which describe the functionality of the hardware components of the transponder,

- and the function modules (13 to 19) of the layer (12) lying above the bottom layer (2) jointly form an application interface which can process the application software of the various manufacturer-dependent central monitoring systems, and hence the same

10 transponder can be used in different monitoring systems with different protocols and administrative purposes.

Fig. 2

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